Definite Integrals   Sheet 2

Evaluate:

$$\int_{1}^{2} (2x^3 + 2x + \sqrt{x})dx$$

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{2}} (2\cos 2x - \csc^2 x)dx$$

$$\int_{1}^{2} (e^x + x + 1)dx$$

$$dx$$

$$\int_{1}^{2} (e^{2x} + \frac{8}{e^x})dx$$

$$\int_{1}^{2} (x^4 - \frac{7}{x^3} + \frac{5}{\sqrt{x}})$$

$$\int_{0}^{1} (\frac{5}{1+x^2} + \frac{2x}{3})dx$$

$$\int_{\frac{\pi}{3}}^{\frac{\pi}{2}} sin^3 x \, dx$$

Definite Integrals

Sheet 2

$$\frac{59 + 8\sqrt{2}}{6}$$

$$-\frac{3\sqrt{3}}{2}$$

$$e^2 - e + \frac{5}{2}$$

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$$\frac{(e^4 - e^2)}{2} - 8(\frac{1-}{e^2}$$

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$$-\frac{257}{40} + 10\sqrt{2}$$

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$$\frac{5\pi}{4} + \frac{1}{3}$$

$$\frac{11}{24}$$